AMENDMENTS TO THE CLAIMS

1-6. (Canceled)

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- 7. (Currently Amended) The device of claim 6 method of claim 78, wherein the actuator comprises a linear actuator.
- 8. (Currently Amended) The device of claim 6 method of claim 78, wherein the actuator comprises a hydraulic pump.
- 9. (Currently Amended) The device of claim 6 method of claim 78, wherein the actuator has a visualization window for viewing the contents of the vessel.
- 10. (Currently Amended) The device of claim 6 method of claim 78, wherein the visualization window has means for measuring the amount of viscous material bone cement being delivered.
- 11. (Currently Amended) The device of claim 6 method of claim 78, wherein the means for measuring are graduation lines marked on the outside of the actuator.
- 12. (Currently Amended) The device of claim 6 method of claim 78, wherein the delivery tube is flexible and noncompliant.
- 13. (Currently Amended) The device of claim 6 method of claim 78, wherein the container is adapted to hold at least 3 cc of viscous material bone cement.

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14. (Currently Amended) The device of claim 6 method of claim 78, wherein the container further comprises a visualization window for viewing contents of the container.

- 15. (Currently Amended) The device of claim 6 method of claim 78, wherein the visualization window has means for measuring the amount of viscous material bone cement being delivered.
- 16. (Currently Amended) The device of claim 6 method of claim 78, wherein the means for measuring are graduation lines marked on the outside of the container.
- 17. (Currently Amended) The device of claim 6 method of claim 78, wherein the container is made from a noncompliant material.
- 18. (Canceled)
- 19. (Currently Amended) The device of claim 6 method of claim 78, wherein the amount of fluid contained in the vessel is greater than the amount of viscous to be delivered.
- 20. (Currently Amended) The device of claim 6 method of claim 78, further comprising a cannula connected to the exit port for delivery of the viscous material to the desired injection site in the patient.
- 21-35. (Canceled)

- 36. (Currently Amended) The device of claim 6 method of claim 37, a separator sized to move within the inner bore of the tube while separating the viscous material from the incompressible fluid.
- 37. (Currently Amended) A method of delivering a viscous material under fluoroscopy to a site in a patient comprising the steps of:
- a) providing a delivery tube containing an incompressible fluid and a viscous material, wherein the viscous material is located within the fluoroscopy field and the viscous material comprises bone cement; and
- b) pressurizing the incompressible fluid outside the fluoroscopy field to exert pressure on the viscous material.
- 38. (Previously Presented) The method of claim 37 wherein the delivery tube is flexible and noncompliant.
- 39. (Previously Presented) The method of claim 37 wherein the step of pressurizing the incompressible fluid, comprises using a linear actuator.
- 40. (Previously Presented) The method of claim 37 further comprising the step of: a) determining the amount of viscous material delivered from a visualization window.
- 41-49. (Canceled)

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50. (Currently Amended) A device according to claim 46 method according to claim 37, wherein said hydraulic mechanism provides further comprising applying force amplification on the incompressible fluid.

51. (Currently Amended) A device according to claim 46 method according to claim 37, wherein said hydraulic mechanism provides further comprising applying force amplification on the incompressible fluid by mechanical advantage.

52-58. (Canceled)

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- 59. (Currently Amended) A method according to claim 54 <u>claim 37</u>, comprising cooling said bone cement in a manner sufficient to delay its solidification.
- 60. (Currently Amended) A method according to elaim 54 claim 37, further comprising replacing a cement chamber during a single medical procedure.
- 61. (Currently Amended) A method according to claim 54 <u>claim 37</u>, <u>further</u> comprising delivering 10 cc of bone cement to a bone.
- 62. (Currently Amended) A method according to claim 54 <u>claim 37</u>, comprising not replacing a cement chamber during a single medical procedure.

63-77. (Canceled)

78. (New) A method of delivering a viscous bone cement material under fluoroscopy to a site in a patient, comprising:

providing a delivery device having:

a container containing a viscous bone cement prior to the bone cement having set, the container having an exit port;

an actuator having an actuator vessel, the actuator vessel containing an incompressible fluid; and

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a hydraulic coupling tube connecting the actuator vessel to the container;

locating the container with respect to the patient so that cement leaving the container through the exit port is delivered to a desired injection site within the patient; and

while at least a portion of the patient is subjected to fluoroscopic imaging, actuating the actuator from a location outside a field of fluoroscopic imaging to hydraulically drive a flow of viscous bone cement through the exit port to the desired injection site within the patient.